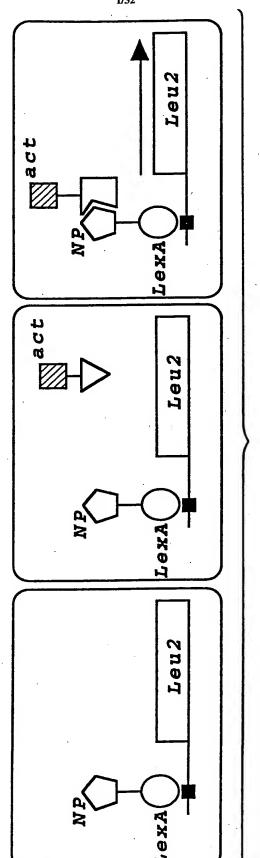
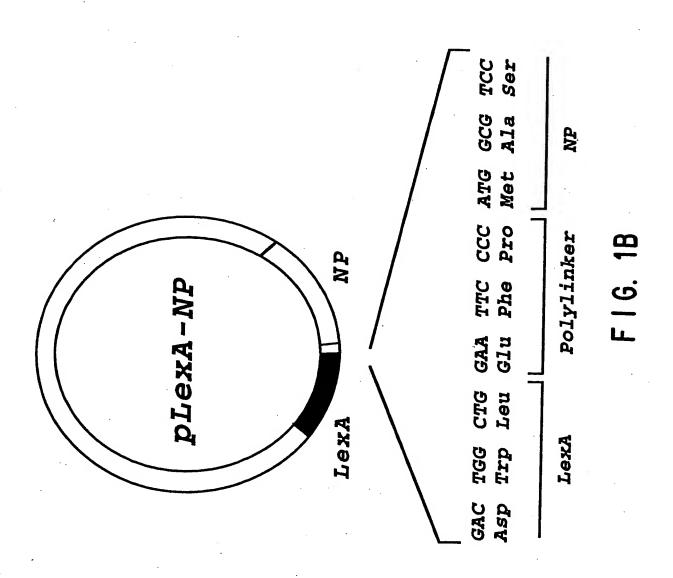


Docket No. 6923-119
Serial No. 10/724,273
Inventor(s): Palese et al.
Title: IDENTIFICATION AND USE OF
ANTIVIRAL COMPOUNDS THAT INHIBIT
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•			•		
60 CCACCCAGG T T P G>	120 ATGAGATGCG D E M R>	180 AGCAGTTATT E Q L F>	240 CAAGCGGAGA AATGTTGCTA CAGCAGAAGA AGAAACAGAA GAAGAAGTTA TGTCAGATGG K R R N V A T A E E E T E E E V M S D G>	280 AGGCTTTCAT GAGGCTCAGA TTAGTAACAT GGAGATGGCA CCAGGTGGTG TCATCACTTC G F H E A Q I S N M E M A P G G V I T S>	340 TAT TTTCCAAAAG CCCAGAGCAA CAGCTTTCAG CAACACAGAA I F S K S P E Q Q L S A T Q K>
TGAAATATGA (120 AAAAGAGAAC TTTCGCCTGA AAAGTTACAA GAACAAATCT CTGAATCCCG ATGAGATGCG K E N F R L K S Y K N K S L N P D E M R>	180 CAGGAGGAGGAAGAAG GACTGCAGTT ACGAAAGCAG AAAAGAGAAG AGCAGTTATT R R R E E G L Q L R K Q K R E E Q L F>	GAAGAAGTTA E E V	CCAGGTGGTG P G G	340 TGACATGATT GAGATGATAT TTTCCAAAAG CCCAGAGCAA CAGCTTTCAG CAACACAGAA D M I E M I F S K S P E Q Q L S A T Q K
40 sccttgagcc	100 GAACAAATCT N K S	160 ACGAAAGCAG R K Q	220 AGAAACAGAA E T E	280 GGAGATGGCA E M A	340 CCCAGAGCAA P E Q
GGATCGGTT (AAAGTTACAA K S Y K	GACTGCAGTT G L Q L	CAGCAGAAGA T A E E	TTAGTAACAT I S N M	TTTCCAAAAG F S K S
20 GGGTGGCACC (80 TTTCGCCTGA	140 GAGGAAGAAG E E E	200 AATGTTGCTA N V A	260 GAGGCTCAGA E A Q	320 GAGATGATAT E M I
20 CTAACTTCAG CGGTGGCACC GGGATCGGTT GCCTTGAGCC TGAAATATGA CCACCCCAGG	AAAAGAGAAC K E N	CAGGAGGAGG R R R	CAAGCGGAGA K R R	AGGCTTTCAT G F H	TGACATGATT D M I

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420	480	540	600	620	680
GATGAAGTTA TCAGCACACC	CACTGCAGTT	TCTCTTCAGA CCCGAATTGT	TTGAAGATGT	CCAGGAACAG GCAGTCTGGG CTCTTGGCAA CATTGCTGGA GATAGTACCA TGTGCAGGGA	CTATGTCTTA GACTGCAATA TCCTTCCCCC TCTTTTGCAG TTATTTTCAA AGCAAAACCG
D E V I S T P>	S L Q F>	S L Q T R I V>	F E D V>	Q E Q A V W A L G N I A G D S T M C R D>	Y V L D C N I L P P L L Q L F S K Q N R>
	GAGAATTGTT	TCTCTTCAGA	AGCTCAGAGT	GATAGTACCA	TTATTTTCAA
	E N C	S L Q	S S E	D S T	L F S
400	460	520	580	640	700
CCCTCCTATT	CAAACGAAAA	TTCAGGAAAT	AGAGTTGCTC	CATTGCTGGÄ	TCTTTTGCAG
P P I	K R K	S G N	E L L	I A G	L L Q
AAGAACCTAA K E P N	TGGAGTTCCT V E F L	520 CAAATATTGC TTCAGGAAAT T N I A S G N	CCATCTTCAT P I F I	CTCTTGGCAA A L G N	TCCTTCCCCC I L P P
380 ATTCAGGAAG CTGCTTTCAA AAGAACCTAA CCCTCCTATT F R K L L S K E P N P P I	440	520	560	620	680
	AGGAGTAGTG GCCAGGTTTG TGGAGTTCCT CAAACGAAAA GAGAATTGTT CACTGCAGTT	TGAATCAGCT TGGGTACTGA CAAATATTGC TTCAGGAAAT	AGAGCTGTGC	GCAGTCTGGG	GACTGCAATA
	G V V A R F V E F L K R K E N C S L Q F	ESAWVLTNIASG	R A V	A V W	D C N
ATTCAGGAAG F R K	AGGAGTAGTG G V V	TGAATCAGCT E S A	580 GATTCAGGCA AGAGCTGTGC CCATCTTCAT AGAGTTGCTC AGCTCAGAGT TTGAAGATGT I Q A R A V P I F I E L L S S E F E D V	CCAGGAACAG Q E Q	CTATGTCTTA Y V L

F 1 G. 2B

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0 E ^ ^	0 () ()		^	
84	900	960	1020	1080
TGCTGTTTG	CAGATGGACC	TGGAACTGCT	ACATTGTCAC	GTTTATTGCA
L L F	S D G P>	V E L L	N I V T	S L L H
CTTTCCTGGT L S W	TCATATCTAT S Y L	AGGAGACTTG R R L	GCTGTGGGAA A V G	1060 AGGTAATTCT GAATTGCTCA GCTCTGCAGA GTTTATTGCA Q V I L N C S A L Q S L L H>
820	880	940	1000	1060
TCTGAATGTG	CTGGGCCCTC	GGGAGTATGT	TGCTTTGCGA	GAATTGCTCA
L N V	W A L	G V C	A L R	N C S
TTTCTCCATG	CTGATGCCTG	TCATCGATGC	TGGTTTCTCC	AGGTAATTCT
V S P C	A D A C	V I D A	V V S P	Q V I L
800	860	920	980	1040
TTTGCAAAGG	GATGTACTGG	ATTCAAGCGG	GATTATAAAG	AGGGGATGAT ATTCAGACAC AGGTAATTCT GAATTGCTCA GCTCTGCAGA GTTTATTGCA
F A K	D V L	I Q A	D Y K	G D D I Q T Q V I L N C S A L Q S L L H
ACCTCCAGAA	CAGTGACACT	CAATGATAAA	GATGCATAAT	AGGGGATGAT ATTCA
P P E	S D T	N D K	M H N	
	800 A TTTGCAAAGG TTTCTCCATG TCTGAAT F A K V S P C L N	AAAGG TTTCTCCATG TCTGAATGTG C K V S P C L N V 860 ACTGG CTGATGCCTG CTGGGCCCTC T L A D A C W A L	U E A	800

F - 6. 2C

•			*	,	
GTTGGACGA TATCTAATAT C W T I S N I>	1160 TACAGCTGGA AATAGGGCAC AGATCCAGAC TGTGATAGAT GCCAACATTT TCCCAGCCCT T A G N R A Q I Q T V I D A N I F P A L>	1240 CATTAGTATT TTACAAACTG CTGAATTTCG GACAAGAAAA GAAGCAGCTT GGGCCATCAC I S I L Q T A E F R T R K E A A W A I T>	1320 AAATGCAACT TCTGGAGGAT CAGCTGAACA GATCAAGTAC CTAGTAGAAC TGGGTTGTAT N A T S G G S A E Q I K Y L V E L G C I>	1340 CAAGCCGCTC TGTGATCTCC TCACGGTCAT GGACTCTAAG ATTGTACAGG TTGCCCTAAA K P L C D L L T V M D S K I V Q V A L N>	1420 TGGCTTGGAA AATATCCTGA GGCTTGGAGA ACAGGAAGCC AAAAGGAACG GCACTGGCAT G L E N I L R L G E Q E A K R N G T G I>
TGTTGGACGA TATCTAATAT C W T I S N I	GCCAACATTT A N I	GAAGCAGCTT E A A	CTAGTAGAAC L V E	ATTGTACAGG I V Q	AAAAGGAACG K R N
1120 AAAGGAAGCA K E A	1180 TGTGATAGAT V I D	1240 GACAAGAAAA T R K	1300 GATCAAGTAC I K Y	1360 GGACTCTAAG D S K	1420 ACAGGAAGCC Q E A
AATCTATCAA E S I K	AGATCCAGAC Q I Q T	220 CTG CTGAATTTCG T A E F R	CAGCTGAACA S A E Q	TCACGGTCAT L T V M	GGCTTGGAGA R L G E
1100 AGCCCAAAGG S P K	1160 AATAGGGCAC N R A	1220 TTACAAACTG L Q T	1280 TCTGGAGGAT S G G	1340 TGTGATCTCC C D L	1400 AATATCCTGA N I L
1120 TTTGCTGAGT AGCCCAAAGG AATCTATCAA AAAGGAAGCA L L S S P K E S I K K E A	TACAGCTGGA T A G	CATTAGTATT I S I	AAATGCAACT N A T	CAAGCCGCTC K P L	TGGCTTGGAA G L E

F 1 G. 20

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*				•		
1500 AGTTCTTACA E F L Q>	1560 CTTATTGAGC ATTACTTCGG L I E H Y F G>	1620 CTTAACCAGC AGCAGTACAT L N Q Q Q Y I>	1680 TGAAGCAATA CTCTGCTTTC	1740 TIGTGGAGCC CACAGTCCTC	1800 CTTGCCTTGC	1860 TCTGTGGTGG GATACCCTTC
GATAAAATTG D K I	CTTATTGAGC L I E	CTTAACCAGC L N Q			CGCTCATTTG	TCTGTGGTG
1480 TTATGGTCTG (Y G L			1660 TTTCCAGCTT F Q L>	1720 TCGAGTCCTC	1780 ATACTGTTTG	1840 CCTCCGGCTC
1460 TITGA TIGAAGAAGC TTATGGTCTG GATAAATTG AGTTCTTACA L I E E A Y G L D K I E F L Q	TCTACCAAAA I Y Q K	GCATTGCACC S I A P	CTATGGAAGG P M E G	1720 AGACCA GGCTACCCAG TCGAGTCCTC	GTTTTCCATA	ATCTGGAAAA
1460 rgrgcrrrga c a L	1520 AACCAGGAGA N Q E	1580 GACCGAAGAT GAAGACAGCA GCATTGCACC CCAGGTTGAC T E D E D S S I A P Q V D	1640 CTTCCAACAG TGTGAGGCTC CTATGGAAGG TTTCCAGCTT F Q Q C E A P M E G F Q L>	1700 GCTCAGACCA	1760 CTTCTCAAAT	1840 GCACCTGCTC TCTTACACAC ATCTGGAAAA CCTCCGGCTC
TAACCCTTAC TGTGC N P Y C A	1540 GAGTCATGAA AACCAGGAGA TCTACCAAAA GGCCTTTGAT S H E N Q E I Y Q K A F D	GACCGAAGAT T E D	CTTCCAACAG F Q Q	ACGTACCTGT GCTC	ATGGAGCTAA CTTC	GCACCTGCTC

F16.2E

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					•		
1920 AGGCTTTGGA	1980 CCCTTTTTCT	2040 AAAACTGACA	2100 ACAAGGGAGA	2160 AGTGAACCCT	2220 ATTGGATGGT	2280 TAAACCATCC ACTCCCTCAC	2340 GCTGAAGAAT TAACACTTTG
1920 AAAAATCCCT AGGCTTTGGA	TAATGTGGCT	2040 CATGGGGAA AAAACTGACA	ACTACTTACG	GTTCTTCCAC	CCTTACTGAG		
1900 TCTTTTACGG	1960 ATACACATAT	2020 TTCCCTTTAA	2080 ATTTTACACA	2140 CTTTTCATGA	2200 TTGCATTAAT	2260 CATTCTTCAG ATATTAAAGT	2320 GCTTTCTAGT TGTCAGGAAT
CGGCCCACTC	1960 TTATGGGAAT ATACACATAT	CTCCTCCTCA	TTTATCTTGA	CTTCAGAGTA	TCTAGCCAGA	CATTCTTCAG	GCTTTCTAGT
1880 CAGAA			2060 AGACTAAATC	2120 TGTTGGTATA	2180 GGTGGCTTTT	2240 CTATTGGCGC	2300 CTTCAGCCTT CAGTGAATGT
TAATAAAAGG GTAAC	1940 GATCCGCACT TACATTAGAG	2000 TGTGGGGAA TAAAAGAGGA	TTAAAAGATG AGACT	TGTTTAGACC TGTTG	TGGATTACCT GGTGG	TTTCTTTCCT CTATT	CTTCAGCCTT

F16.2F

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2400 CGCTTTTGCT	2460 CTTTTCGAAT	2520 CGAAAAAACC	2580 ATTAAAATAA	2640 TTCACCCTAG	2700 TGGGATTTTT	2760 TTAATCGATA	2820 CCAAATAAGA
TTAATTTGTT	TCTCTTTGGT	2520 TTAATAAAAA AAACTAAGGA CGAAAAAACC	GTGTTTCTGC	AAAATTGGAG	AAAGTAACTT	CACGATTCCT	CCTGCTTAAC
2380 CAGGGCACAT	2440 CGCTTTTGCT	2500 TTAATAAAAA	2560 ACTAGGGGCT	2620 TCCTCATTAA	2680 CATACTTTTG	2740 TCATGCTGCA	2800 TAACCATCTT CTCAACATGA
2380 TGGGTAAGAG CAGGGCACAT	TTAATTTGTT	ATCCTGTAAT	AATCAGTGTA	CTGATCAAGG	GCAGATAACA	TCTAATCTTT	TAACCATCTT
2360 GTGATACTGG	2420 CTGGGCACAT	2480 CGAAAACCAT	2540 TCCCAAATGC	2600 CTTTGTGGTC	2660 TCTGTGACTG	2720 GCAGCTCGAT	2780 CTGAAAGAAA
2360 ACTCCTAAAT GTGATACTGG	TCTCTTTGGT	ACTTAGTAAT	CCTCCAATTT	ATGTTTCAGG	GCTTTTCCCC	TTTCTTAGGT	GCATCCTTAT CTGA

F I G. 26

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2940 CTCCCCC CACACAAAT AAAACAGTA TCTCGCTTCT GGCTCATTTT
GCTTCT
TCTC
2920 AAAAACAGTA
CACACAAAAT
2900 CCCCTCCCCC
GTGCCGCTTC CCC

F 1 G. 2H

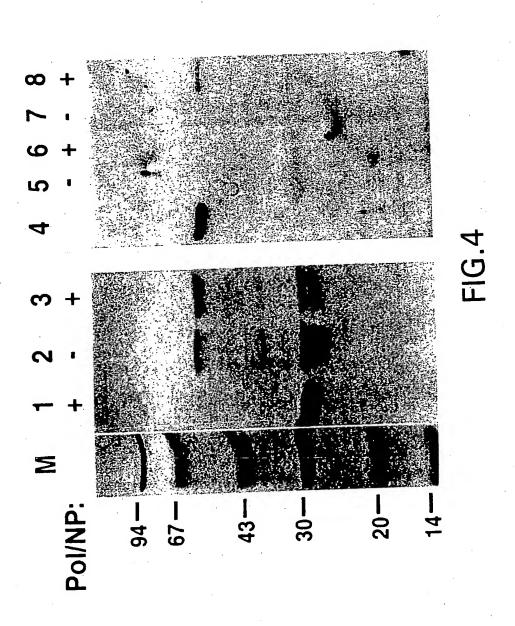
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	4		
NPI-1	1 12 MTTPGKENFRLK		
SRP1	MDNGTDSSTSKFVPEYRRT		
WD1 4	13 58		
NPI-1	SYKNKS-LNPDVMRRRREEEGLQLRKLKREEQLFKRRNVVTAEEETE		
SRP1	NFKNKGRFSADELRRRRDTQQVELRKAKRDEALAKRRNF IPPTDGAD		
	59 105		
NPI-1	EEVMSDGGFHEAQISNMEMAPGGVITSDMIEMIFSKSPEQQLSATQK		
SRP1	. . . SDEEDESSVSADQQFYSQLQQ—ELPQMTQQLNSDDMQEQLSATVK		
1	06 150		
NPI-1	FRKLLSKEPDPPIDE-VISTPGVVARFVEFLKR-KENCSLQFESAWV		
		Repeat	#1
SRP1	FRQILSREHRPPIDVVIQAGVVPRLVEFMRE-NQPEMLQLEAAWA		
1	51 192		
NPI-1		1	
		Repeat	#2
SRP1	LTNIASGTSAQTKV—VVDADAV—PLFIQLLYT—GSVEVKE—QAIWA	İ	
11	93 235		
NP I – 1	LGNIAGDSTMCRDY—VLDCNIL—PPLLQLFSKQNRLTMTR—NAVWA		
		Repeat	#3
SRP1	LGNVAGDSTDYRDY—VLQCNAM—EPILGLFNS—NKPSLIR-TATWT	1	
2.	36 277	•	
NP I – 1	LSNLCRGKSPPPEF—AKVSPCL-NVLSWLLFV-SDTDVLA-DACWA	_	
		Repeat	#4
SRP1	LSNLCRGKKPQPDW—SVVSQAL—PTLAKLIYS—MDTETLV—DACWA		
27	78 318		
NPI-1	LSYLSDGPNDKIQA—VIDAEYVET-VELLMH-NDYKVVS-PALRA		
	: ::	Repeat	#5
SRP1	ISYLSDGPQEAIQA—VIDVRIPKRLVELLSH-ESTLVQT-PALRA		
31			
NPI-1	VGNIVTGDDIQTQV—ILNCSALQSLLHLLSS-PKESIKK-EACWT		
		Repeat	#6
	VGNIVTGNDLQTQVVINAGVLPALRLLLSS-PKENIKK-EACWT	·	
36			
NPI-1	ISNITAGNRAQIQT—VIDANIFPALISILQT—AEFRTRK—EAAWA		
		Repeat	#7
SRP1	ISNITAGNTEQIQAVIDANLIPPLVKLLEV-AEYKTKK-EACWA		

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40)3 445
NPI-1	ITNATSGG-SAEQIKYLVELGCIKPLCDLLTV-MDSKIVQ-VALNG : :
44	ISNASSGGLQRPDIIRYLVSQGCIKPLCDLLEI-ADNRIIE-VILDA 490
NPI-1	LENILRLGEQEAKRNGTGINPYCALIEEAYGLDKIEFL-LSHENQEI
SRP1	: : : : :
49)1
NPI-1	YOKAFDL IEHYFGTEDE-DSSIAPQVDLNQQQY IFQQCEAPMEGFQL
SRP1	: ::: . :: .::: . YEKAYKIIETYFGEEEDAVDETMAPQNAGNTFGFGSNVNQQFNFN
Repeat ARM:	element Consensuses: L+NLS*+***N+*ALL**GGL-PALV+LL*S-*+E**L*-*AA*A
	A II I I V
NPI-1	VV V
& SRP1:	: LSNI*SG***QPQ*VVI*AGV*PPLV-LL*S-*-*E*K+E-ACWA

FIG.3B



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	Total	Cyto
	Hera MDBK	Hers Moby
206 —	The state of the s	€
105		eve .
70 -		
43 —		
28—		

FIG.5

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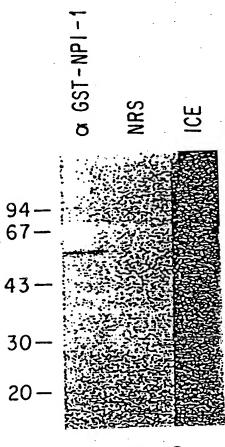


FIG.6

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GGAGGATGAA GGCCATTCAA ACTCCTCCCC ACGACACTCT GAAGCAGCGA CGCCACAGCG

140
GGAAGAATGG AAAATGTTTA TAGGAGGCCT TAGCTGGGAC ACTACAAAGA

FIG.7

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60 SAGGAGAAAT R R N>	120 CAACCAGGGC N Q G>	180 TGTGGAAAAT V E N>	240 GCCCCCATA P P I>	300 CAGAACTGAT R T D>	360 TGGGACATCA G T S>
AGATGCTGAA (Q M L K	AAAACCGCAA E N R N	ATAGCAGCAA N S S N	GAGAAAACA R E K Q	300 GACAACATAA TCCGGGCTGG TTTGATTCCG AAATTTGTGT CCTTCTTGGG CAGAACTGAT D N I I R A G L I P K F V S F L G R T D>	340 TGTAGTCCCCA TTCAGTTTGA ATCTGCTTGG GCACTCACTA ACATTGCTTC TGGGACATCA C S P I Q F E S A W A L T N I A S G T S>
40 AAGGATGACC K D D	100 CCGCTGCAGG P L Q	160 AAAGGCATAA K G I	220 CTACTTTCCA L L S	280 AAATTTGTGT K F V	340 GCACTCACTA A L T
SAAAGCTAAG K A K	TGCTACTTCT A T S	TGACATTGTC D I V	TGCCAGGAAA A R K	TTTGATTCCG L I P	ATCTGCTTGG S A W
20 GGAGCTGAG (80 FTCCTGATGA	140 GGTCTGTTGA WSVD	200 CTACTCAAGC A T Q A	260 TCCGGGCTGG I R A G	320 TTCAGTTTGA I Q F E
20 GAGGTCAATG TGGAGCTGAG GAAAGCTAAG AAGGATGACC AGATGCTGAA GAGGAGAAAT E V N V E L R K A K K D D Q M L K R N>	120 GTAAGCTCAT TTCCTGATGA TGCTACTTCT CCGCTGCAGG AAAACCGCAA CAACCAGGGC V S S F P D D A T S P L Q E N R N N Q G>	180 ACTGTAAATT GGTCTGTTGA TGACATTGTC AAAGGCATAA ATAGCAGCAA TGTGGAAAAT T V N W S V D D I V K G I N S S N V E N>	240 CAGCTCCAAG CTACTCAAGC TGCCAGGAAA CTACTTTCCA GAGAAAAACA GCCCCCCATA Q L Q A T Q A A R K L L S R E K Q P P I>	GACAACATAA D N I	TGTAGTCCCA C S P

F16.8A

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420	480	540	600	660	720
TCTGTTGGCA	TGCAGGTGAT	GTTGGCTCTC	TACCTGGACA	TGAGCAGATT	AGATACCTGC
L L A>	A G D>	L A L>	T W T>	E Q I>	D T C>
CATTCATTTC	TAGGAAACAT	TTGACCCACT	TACGTAATCT	TAGATGCTGT	AAGTGTTAGC
A F I S	L G N I	V D P L	L R N L	I D A V	E V L A
400	460	520	580	640	700
GCCATCCCAG	GTCTGGGCTC	TACGGTGCAG	TGTGGCTACT	GCACCCCGA	GATGATCCAG
A I P	V W A	Y G A	C G Y	A P P	D D P
AGATGGAGGT	TGAACAAGCT	GGTTATTAAG	ATCTTTAGCA	CAAGAATCCT	CCTGCATCAT
D G G	E Q A	V I K	S L A	K N P	L H H
380	480	540	560	640	720 CTTCCTACCT TAGTTCGGCT CCTGCATCAT GATGATCCAG AAGTGTTAGC AGATACCTGC L P T L V R L L H H D D P E V L A D T C>
AGGCTGTGGT	TCTCCCCATG CTCACATCAG TGAACAAGCT GTCTGGGCTC TAGGAAACAT TGCAGGTGAT	GGCTCAGTGT TCCGAGACTT GGTTATTAAG TACGGTGCAG TTGACCCACT GTTGGCTCTC	CTTGCAGTTC CTGATATGTC ATCTTTAGCA TGTGGCTACT TACGTAATCT TACCTGGACA	CTTTCTAATC TTTGCCGCAA CAAGAATCCT GCACCCCGA TAGATGCTGT TGAGCAGATT	
K A V V	S P H A H I S E Q A V W A L G N I A G D>	G S V F R D L V I K Y G A V D P L L A L>	L A V P D M S S L A C G Y L R N L T W T>	L S N L C R N K N P A P P I D A V E Q I>	
400 GAACAAACCA AGGCTGTGGT AGATGGAGGT GCCATCCCAG CATTCATTTC TCTGTTGGCA E Q T K A V V D G G A I P A F I S L L A>	TCTCCCCATG S P H	GGCTCAGTGT G S V	CTTGCAGTTC L A V	CTTTCTAATC L S N	CTTCCTACCT L P T

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780	840	900	960	1020	1080
GGTGAAAACA	TGTGACTCCT	GGTTGTGATT	TAACATTCAG	GATACAGCAA	AGATTTTAAG
V K T>	V T P>	V V I>	N I Q>	I Q Q>	D F K>
TTGGCATGGT I G M V	840 GAAGCTTCTA GGAGCTTCTG AATTGCCAAT TGTGACTCCT K L L G A S E L P I V T P>	880 GTACAGATG AACAGACTCA GTDEQTQ	940 CTTTCCCAGC CTGCTCACCA ACCCCAAAAC TAACATTCAG F P S L L T N P K T N I Q>	1020 AAGGAAGCTA CGTGGACAAT GTCAAACATC ACAGCCGGCC GCCAGGACCA GATACAGCAA K E A T W T M S N I T A G R Q D Q I Q Q>	1080 GTCAGTGTTC TCTCTAAGGC AGATTTTAAG V S V L S K A D F K>
760	820	880	940	1000	1060
AATGAACGAA	GGAGCTTCTG	GGTACAGATG	CTGCTCACCA	ACAGCCGGCC	GTCAGTGTTC
N E R	G A S	G T D	L L T	T A G	V S V
TGATGGTCCA	GAAGCTTCTA	TATTGTCACT	CTTTCCCAGC	GTCAAACATC	CCCATTCCTT
D G P	K L L	I V T	F P S	S N I	P F L
740	800	860	920	980	1040
CCTACCTTAC	CCCAACTIGT	CCATAGGGAA	CACTCGCCGT	CGTGGACAAT	ATGGATTAGT
S Y L T	P Q L V	A I G N	A L A V	T W T M	H G L V
780 TGGGCTATTT CCTACCTTAC TGATGGTCCA AATGAACGAA TTGGCATGGT GGTGAAAACA W A I S Y L T D G P N E R I G M V V K T>	800 GGAGTTGTGC CCCAACTTGT G V V P Q L V	860 GCCCTAAGAG CCATAGGGAA TATTGTCACT GGTACAGATG AACAGACTCA GGTTGTGATT A L R A I G N I V T G T D E Q T Q V V I>	920 GATGCAGGAG CACTCGCCGT D A G A L A V	AAGGAAGCTA K E A	1040 GTTGTGAATC ATGGATTAGT CCCATTCCTT V V N H G L V P F L

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ACACAAAAGG AAGCTGTGTG GGCCGTGACC AACTATACCA GTGGTGGAAC AGTTGAACAG T Q K E A V W A V T N Y T S G G T V E Q>	1180 TGGCATAATA GAACCGTTGA TGAACCTCTT AACTGCAAAA G I I E P L M N L L T A K>	1240 GATACCAAGA TTATTCTGGT TATCCTGGAT GCCATTTCAA ATATCTTTCA GGCTGCTGAG D T K I I L U I L D A I S N I F Q A A E>	1320 AAGACAGTAC R Q Y>	1380 TTGAAGAATG	1440 TGTATAAGGC
GTGGTGGAAC S G G T	TGAACCTCTT M N L L	ATATCTTTCA N I F Q	AACAAGGGAA E Q G K	AGTATAATGA	AATGAGTCTG
1120 AACTATACCA N Y T	1180 GAACCGTTGA E P L	1240 GCCATTTCAA A I S	1300 CAGATTCAAG Q I Q	1360 AGAGAAACTT R E T>	1420 AAACCATGAA
GGCCGTGACC A V T	TGGCATAATA G I I	TATCCTGGAT I L D	CCCGTCTTCA P S S	GTCGCAGAAT S Q N	AAGCTCTACA
1100 AAGCTGTGTG E A V W	ATTGTGTACC TTGTTCACTG I V Y L V H C	1220 TTATTCTGGT I I L V	1320 AAACTAGGTG AAACTAGCTG CCCGTCTTCA CAGATTCAAG AACAAGGGAA AAGACAGTAC K L G E T S C P S S Q I Q E Q G K R Q Y>	1340 AGAAATGAGG CGTCCGAGGC GTCGCAGAAT AGAGAAACTT AGTATAATGA R N E A S E A S Q N R E T>	1420 TGGAGGCTTA GACAAAATTG AAGCTCTACA AAACCATGAA AATGAGTCTG TGTATAAGGC
ACACAAAGG T Q K	ATTGTGTACC I V Y	GATACCAAGA D T K	AAACTAGGTG K L G	AGAAATGAGG R N E	TGGAGGCTTA

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1500	1560	1620	1680	1740	1800
AAAACGTTGT	CTGGGACCTT	GGTATTTTGT	TTGTTACTGT AGCACTTTTT	TACTGTATGA AGCTTGTCCT	GTAAATAAAC
1480 TGTAGAGGAA GAGGAAGATC AAAACGTTGT	1560 GATGGGGCTC CTGGGACCTT	1620 TACTACGTTT GGTATTTTGT	TTGTTACTGT		GCAGCATCCT
1480	1540		1660	1720	1780
TGTAGAGGAA	CCAAGTTCAG		TAAATGTGGT	TGTACATACA	TTCCTATCTT
AGTATTTCTC	1520 CTGAAG GCTACACTTT	1600 TGAGACATAA ATTTGTTGTG	1640 ACTAAG AACTCTTTCT	CAGTTCCAAC	TATGTGGAAT
1460	1520	1580	1640	1700	1760
TTAATTGAGA	ACCTCTGAAG	ATCATGTAGC	CTCTACTAAG	ACACTGAAAC TATACTTGAA CAGTTCCAAC	CTGACTAGGT TTCTAATTTC
1460 TTCGTTAAGC TTAATTGAGA	ACCAGAAACT ACCT	TAACTTTTAG ATCA	CTTATTGTTT CTCT	ACACTGAAAC	CTGACTAGGT

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1820 ATTCAAGTCC ACCCTTTTCT TGACTTC Docket No. 6923-119
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GAACGACCAA GAGGGTGTTC GACTGCTAGA GCCGAGCAGA AGCGTGCCTA AATCAAAGGA

80 100 120
ACTTGTTTCT TCAAGCTCTT CTGGCAGTGA TTCTGACAGT GAGGTTGACA AAAAGTTAAG

CAGGAAAAAG CAAGTTGCTC CAGAAAAACC TGTAAAGAAA CAAAAGACAG GTGAGACTTC

GAGAGCCCTG TCATCTTCTA AACAGAGCAG CAGCAGCAGA GATGATAACA TGTTTCAGAT

TGGGAAAATG AGGTCAGTT

FIG.9

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		b	
CTCAGGCCA	120 CAGTGTTTGT	180 TGGTGATGTG	
GAGTGCATCC	GGAAAGACAG	GTGTCTGTAC	:
AGTCCAGCAT	100 GTCGGGCATG	160 TACTGGGCAG	220 120 120
ATCCGTCAGA	GCCAGGCCAA	TGGAGCCAGT	TTCAGATCAG
TGTCGACTGT GGCTTTGAGC ATCCGTCAGA AGTCCAGCAT GAGTGCATCC CTCAGGCCAT	120 TCTGGGAATG GATGTCCTGT GCCAGGCCAA GTCGGGCATG GGAAAGACAG CAGTGTTTGT	180 CTTGGCCACA CTGCAACAGC TGGAGCCAGT TACTGGGCAG GTGTCTGTAC TGGTGATGTG	220 TCACACTCGG GAGTTGGCTT TTCAGATCAG CAAGGAATAT G
TGTCGACTGT	TCTGGGAATG	CTTGGCCACA	TCACACTCGG

F | G. 10

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GAGACCCC	120	180	240	300	360
	AGGACTTGGG	GCAGTGAGAT	ACTGTCAAAG	TTGCTGATAA	ATCAGGAACA
SCTGCTGTGC G	120 TGTCTGACCA GGAGGCAAAA CCTTCAACTG AGGACTTGGG	GGACAGGATA	240 AAAGAATCAT ACTGTCAAAG	300 CACTCAGGTT TCTCTTTGAG GGTCAGAGAA TTGCTGATAA	340 GAACTGG GAATGGAGGA AGAAGTTGTG ATTGAAGTTT ATCAGGAACA
40	100	160	220	280	340
ACCCGAGGCC (GGAGGCAAAA (CAAAGTCATT	CAAGAAACTC	TCTCTTTGAG	AGAAGTTGTG
3GTTCTGCTT 1	TGTCTGACCA	ATATTAAACT	CAACACATCT	CACTCAGGTT	GAATGGAGGA
20	80	140	200	260	AAA
CCCGGAGCGA (ACCGTCATCA	GAAGGTGAAT	GTGAAAATGA	CCAATGAATT	
AU ATTTGTAAAC CCCGGAGCGA GGTTCTGCTT ACCCGAGGCC GCTGCTGTGC GGAGACCCCC	GGGTGAAGCC ACCG	180 GGATAAGAAG GAAGGTGAAT ATATTAAACT CAAAGTCATT GGACAGGATA GCAGTGAGAT	220 TCACTTCAAA GTGAAAATGA CAACACATCT CAAGAAACTC	ACAGGGTGTT	TCATACTCCA AAA

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AACGGGGGGT CA

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560 640 213 480 160 187 400 133 240 320 160 53 80 27 80 -80 겁 GCCAATTATAGTGCTGCAAAGTTGGGTCTTCTGGGCCTTGCAAATTCTCTTGCAATTGAAGGCAGGAAAAGCAACATTCA 耳 GGGAACACATGAAGAAACAGAAGTATGGAAGGATTATTATGACTTCATCAGCTTCAGGAATATATGGCAACTTTGGCCAG TTGTAACACCATTGCTCCTAATGCGGGATCACGGATGACTCAGACAGTTATGCCTGAAGATCTTGTGGAAGCCTTGAAGC TGCTAGGATAAGTGATGAAGACTGGGATATAATCCACAGAGTTCATTTGCGGGGTTCATTCCAAGTGACACGGGCAGCAT **ATGGGCTCACCGCTGAGGTTCGACGGGCGGGTGGTACTGGTCACCGGCGCGGGGGGAGGATTGGGCCGAGCCTATGCCCT** GTTGTGAAGACAGCCCTGGATGCTTTTGGAAGAATAGATGTTGTGGTCAACAATGCTGGAATTCTGAGGGATCATTCCTT TCTGACCCTCGTCCCGCCCCCGC Q × 4 Ü S A 闰 × 跘 Ü K Ö П Ø Ö н ß A Ľ Ö 臼 O Ö Ö 闰 ß × S ρι G [z, K z Ö K Σ Д Z S K > Ö > ß Ö Ø Ħ G Z > H K > 4 > \mathbf{z} H K Ω Ω G \mathbf{z} H Z Ö H Ö 24 > æ ĸ K Ø > 24 G Ö pc, Ö > Ö Ö 24 Н × Н × Ω O 团 闰 Ö H 闰 K K S H Ö 4 481 561 241 321 401 161 -81 81

CAGAGTATGTGGCACCTCTTGTCCTTTGCCTTTGTCACGAGAGTTGTGAGGAGAATGGTGGCCTTGTTTGAGGTTGGTGCT

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267	880 293	960 320	1040 347	1120 373	1200 400	1280	1360
GGATGGATTGGAAATTACGCTGGGAGCGACTCTTGGAGCTATTGTAAGAAAGA	AGTCAAGGCTAACTGGAAGATCTGTGACTTTGAGAATGCCAGCAAGCTCAGAGTATCCAAGAATCAACTGGCAGTA V K A N W K K I C D F E N A S K P Q S I Q E S T G S		TCAGGATTTGCTGGAGCTATTGGCCAGAAACTCCTTCTTTATTGCTTATATGGAAGCTATTATGTATG	1041 CCTTGGAGTGGGAGCGTCAAGGATCCAAAAGATTTGAAATTTAATGAAGGAAG	1121 CCACCTTCGGAGTTATCATAGGATCTATGATGGGTGGAGGATTAGCAGAAATTCCTGGACTTTCAATCAA	1201 GCAAAGGTTCTTCATGGAGAGCAGTACTTAGAGTTATATAAAACCACTTCCCAGAGGAAAATTAAAATGTGAAGCAGT 1280 A K V L H G E Q Y L E L Y K P L P R A G K L K C E A V 427	1281 TGTTGCTGATGTAAAGGATCCGGTGTAGTGATTATATGGATGTCTATTCTTATTCTGAGAAGGAACTTATAT 1360 V A D V L D K G S G V V I I M D V Y S Y S E K E L I 453
721	801	881	961	1041	1121	1201	1281

1361 GCCACAATCAGTTCTCTTTTTTTTTTGTGGAGGCTTTGGTGGAAAACGGACATCAGACAAAGTCAAGGTAGCT 1440

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1520	1600	1680	1760	1840	1920	2000
507	533	560	587	613	640	
1441 GIAGCCATACTAATAGACCTCCTGATGCTGTACTTACAGATACCACCTCTTAATCAGGCTGCTTTGTACCGCCTCAG 1520	1521 TGGAGACCGGAATCCCTTACACTTGATCCTAGTCTAGCAGGTTTTGACAAGCCCATATTACATGGATTAT 1600	1601 GTACATTTGGATTTTCTGCCAGGCGTGTTACAGCAGTTTGCAGATAATGATGTCAAGATTCAAGGCAGTTAAGGCT 1680	1681 CGTTTTGCAAAACCAGTATATCCAGGACAAACTCTACAAACTGAGATGTGGAAGGAA	1761 CAAGGTCCAAGAAACTGGAGACATTGTCATTTCAAATGCATATGTGGATCTTGCACCAACATCTGGTACTTCAGCTAAGA 1840	1841 CACCCTCTGAGGGCGGGAAGCTTCAGAGTACCTTTGTATTTGAGGAATAGGACGCCGCCTAAAGGATATTGGGCCTGAG 1920	1921 GTGGTGAAGAAAGTAAATGCTGTATTTGAGTGGCATATAACCAAAGGCGGAAATATTGGGGCTAAGTGGACTATTGACCT 2000
V A I P N R P P D A V L T D T T S L N Q A A L Y R L S 507	G D R N P L H I D P N F A S L A G F D K P I L H G L 533	C T F G F S A R R V L Q Q F A D N D V S R F K A V K A 560		K V Q E T G D I V I S N A Y V D L A P T S G T S A K 613	T P S E G G K L Q S T F V F E E I G R R L K D I G P E 640	V V K K V N A V F E W H I T K G G N I G A K W T I D L 667
À	7	16	16	1.7	18	13

2160 720 2240 735 CTGAGCCAGAAACTTCAGATGATTCTTAAAGACTACGCCAAGCTCTGAAGGGCACACTACACTATTAATAAAAATGGAAT Z × 口 ĸ Ö ß × Ø Ω Ы × G O 闰 ß \mathbf{z} 2161

TCATGGAGGTGGTCCTGGGCAAGCTTGACCTCAGAAGGCATTCTTTAGTGGCAGGCTGAAGGCCAGAGGGAACATCATG

GAAAAGTGGTTCTGGAAAAGTGTACCAAGGCCCTGCAAAAGGTGCTGCTGATACAACAATCATACTTTCAGATGAAGATT

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2241 CATTAAATACTCTCTCACCCAAATATGCTTGATTATTCTGCAAAAGTGATTAGAACTAAGATGCAGGGGAAATTGCTTA 2320

2401 TATAAGCTAGCACATAATTATCCTTCTGTTCTTAGATCTTCTTCATAATAAAAAATTTTGCCCAAGTCCTGTTTCC 2480

2481

AAAAAAAAAAA

F 1 G. 12D

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Kb

9.5 7.5

2.37 -

1.35 -

0.24 -

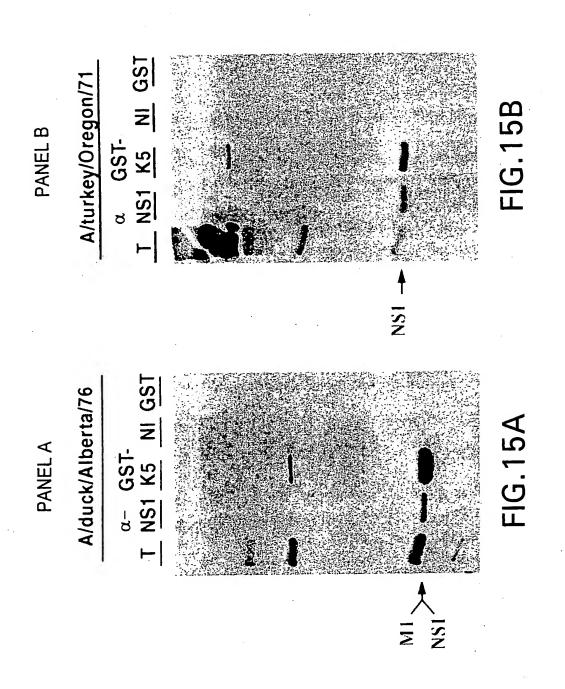
FIG.13

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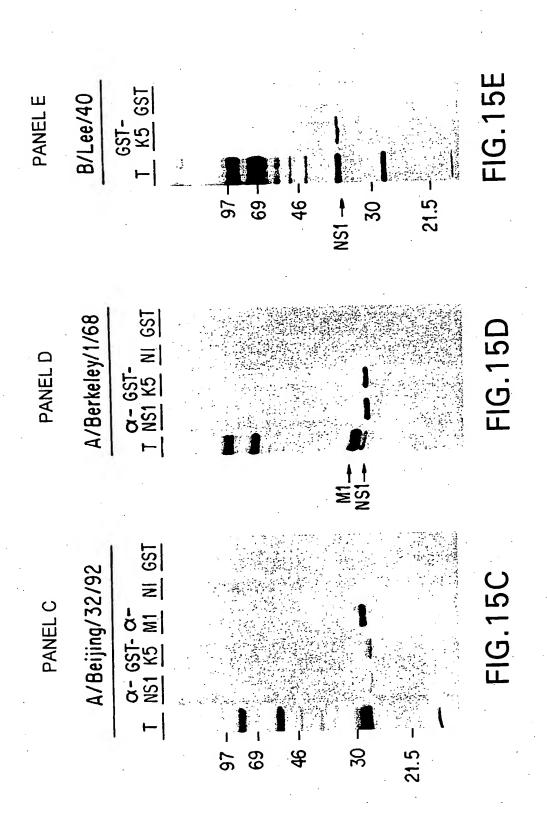
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FIG.14

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